

Single Day Event

Sprint to Success:
Agile Project Management in
Statistical Programming

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Agenda

01

Introduction to Agile Methodology

02

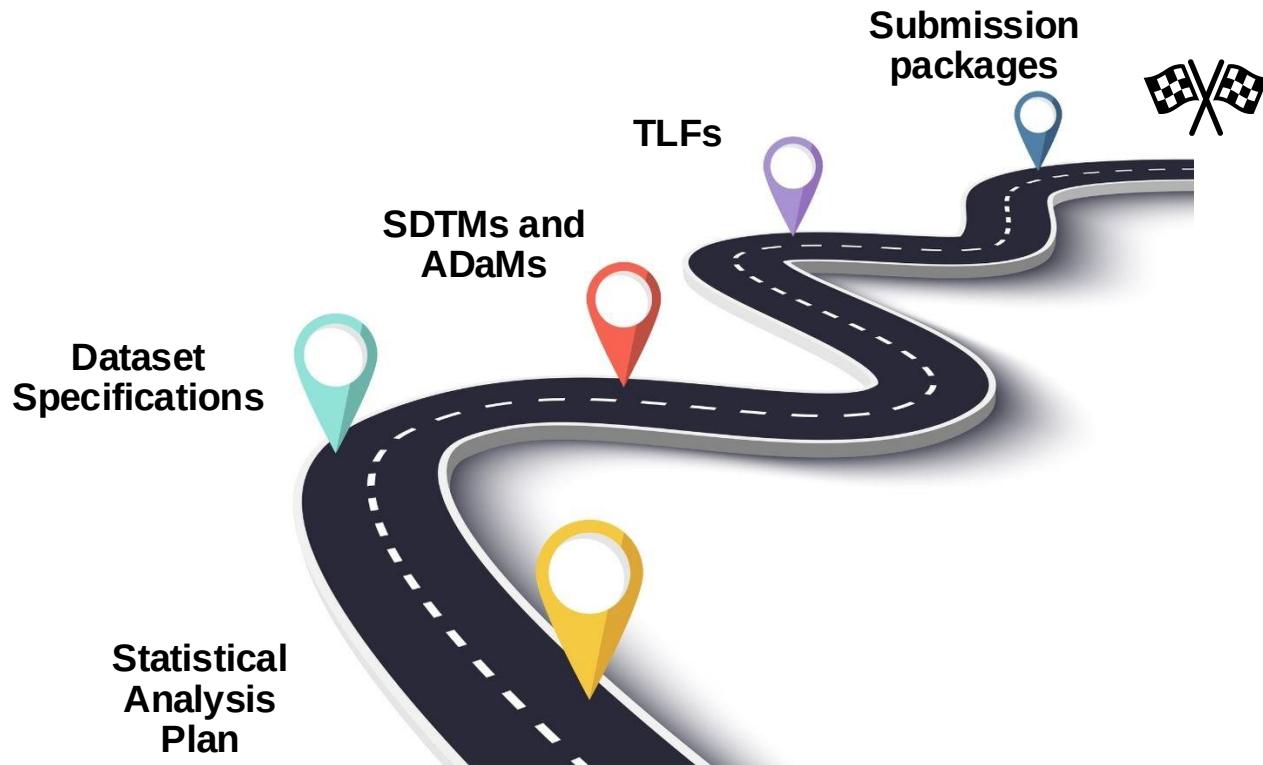
Implementation Strategy

03

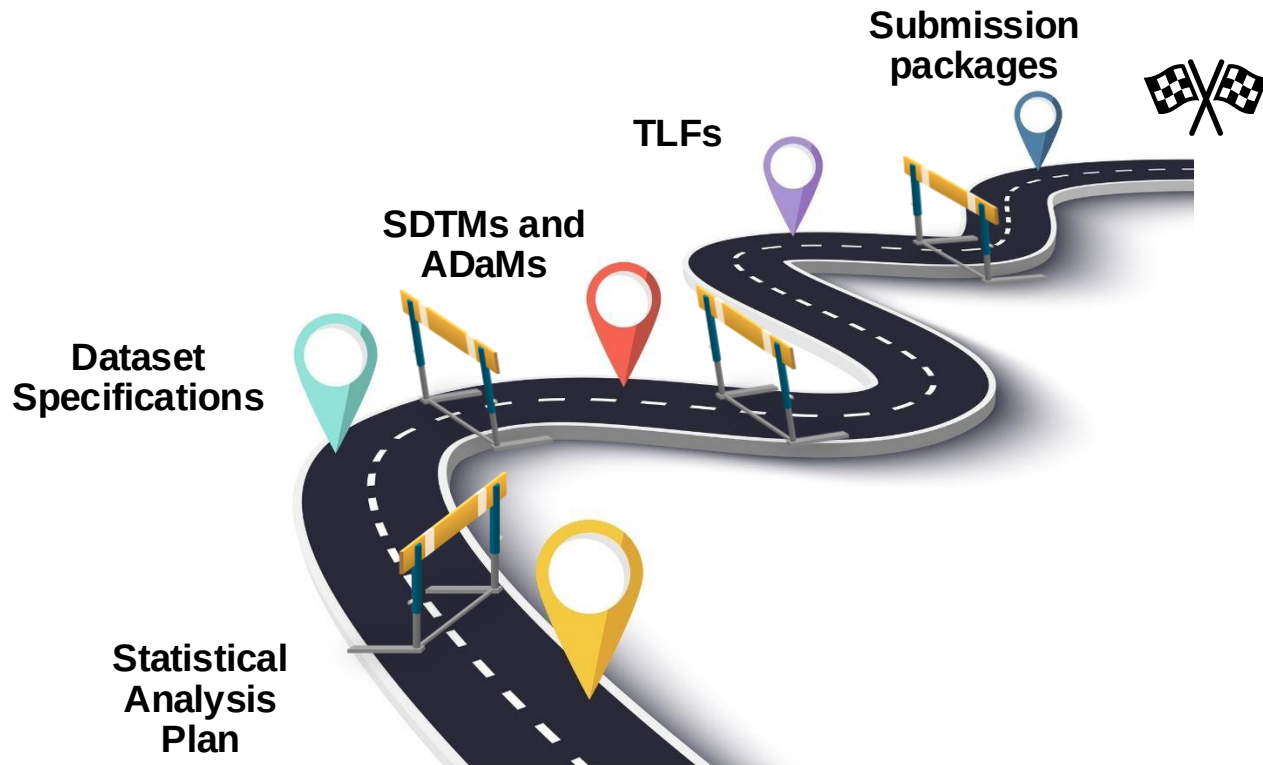
Components of Agile



Statistical Programming Workflow – Expectations



Statistical Programming Workflow – Reality



Factors that can impact planned timelines

Recruitment challenges & site delays

Protocol amendments

Missing or poor quality data

Ad-hoc requests from clinical teams

High dimensional data eg, Genomic data, Real world data

Technical issues

HAQs

...and many more!



Agile Manifesto – The 4 Values

INDIVIDUALS AND INTERACTIONS over processes and tools

WORKING SOFTWARE over comprehensive documentation

CUSTOMER COLLABORATION over contract negotiation

RESPONDING TO CHANGE over following a plan



Agile Principles



Iterate
Deliver Frequently
Collect Feedback



Collaborate
Communicate
Engage stakeholders



Be flexible
Respond to change
Reflect and adjust



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Implementation Strategy



1. Trainings and Resources



2. Tools and Softwares



Implementation Strategy



1. Trainings and Resources

 Project Management Institute.	Certification Certified Associate in Project Management (CAPM)®
	 Google Project Management: Professional Certificate  University of California, Irvine Project Management Principles and Practices Specialization
	Professional Certificate Career Essentials in Project Management by Microsoft and LinkedIn 14h · Updated 4 months ago  Provided by Microsoft and LinkedIn Professional Certificate Atlassian Agile Project Management Professional Certificate 7h 16m · Updated 4 months ago  Provided by Atlassian and LinkedIn



Implementation Strategy



1. Trainings and Resources



2. Tools and Softwares

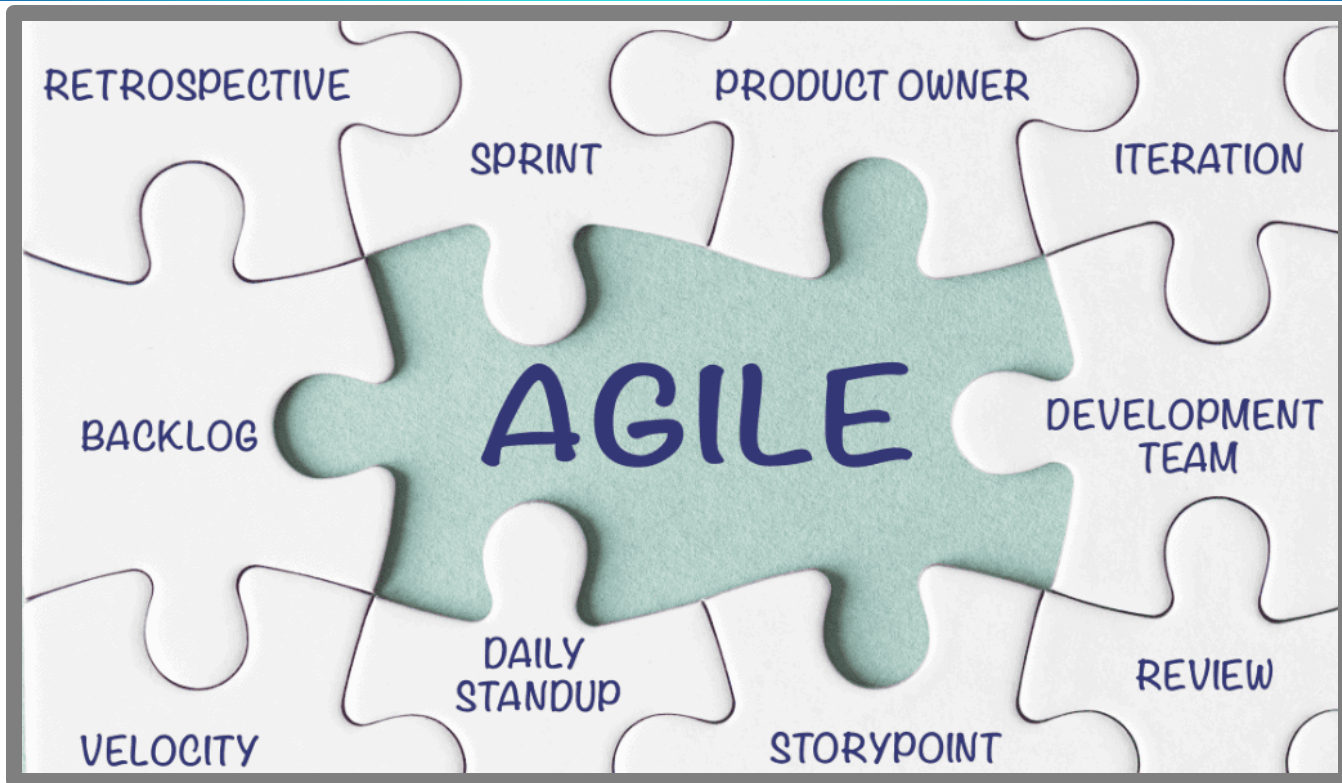


Implementation Strategy



2. Tools and Softwares

Components of Agile





Components of Agile

Epic



An epic is a big task or goal that can be broken down into smaller tasks. It represents a significant feature or requirement that delivers value.

The screenshot illustrates the Jira interface for managing an Epic. On the left, a list of tasks is shown, with 'ABC-1 ADaM Development' selected. An arrow points from this task to the detailed view on the right. The detailed view shows the Epic's name, 'ADaM Development', and its description: 'This contains all ADaM datasets that need to be developed for StudyABC. The dataset specifications can be found here - [ADaM Specifications](#)'. Below the description, a list of child issues is displayed, each with a checkbox, a key, a title, and a status.

Child issues	Order by	...	+	Suggest child issues
☒ ABC-2 ADSL	=	-	H	TO DO
☒ ABC-3 ADAE	=	-	N	TO DO
☒ ABC-4 ADLB	=	-	A	TO DO
☒ ABC-5 ADCM	=	-	N	TO DO
☒ ABC-6 ADTTEFF	=	-	H	TO DO



Components of Agile

Backlog



A backlog is an ordered list of tasks, features, or items that the team will work on as part of a larger product roadmap.

☐ ▼ Backlog (14 issues)	0 0 0	Plan on whiteboard TRY	Create sprint
☒ ABC-2 ADSL	ADAM DEVEL...	TO DO ▼	- H
☒ ABC-3 ADAE	ADAM DEVEL...	TO DO ▼	- N
☒ ABC-4 ADLB	ADAM DEVEL...	TO DO ▼	- A
☒ ABC-5 ADCM	ADAM DEVEL...	TO DO ▼	- N
☒ ABC-6 ADTTEEFF	ADAM DEVEL...	TO DO ▼	- H
☐ ABC-8 TDEM01	TLF DEVELOP...	TO DO ▼	-
☐ ABC-9 TDEM02	TLF DEVELOP...	TO DO ▼	-
☐ ABC-10 TAE01	TLF DEVELOP...	TO DO ▼	- P
☐ ABC-11 TAE02	TLF DEVELOP...	TO DO ▼	- P
☐ ABC-12 TAE03	TLF DEVELOP...	TO DO ▼	-
☐ ABC-13 TAE04	TLF DEVELOP...	TO DO ▼	-
☐ ABC-14 LDEM01	TLF DEVELOP...	TO DO ▼	-
☐ ABC-15 LAE01	TLF DEVELOP...	TO DO ▼	-



Components of Agile

Sprint



A sprint is a fixed time period, usually one to four weeks, during which a specific set of work or features is completed and delivered.

H N P A Epic Type Insights View se

☐ **Sprint 1** 20 Oct – 11 Nov (3 issues)

0 0 0 Complete sprint

To initiate ADaM development. If a dataset cannot be completed in this sprint, it can be moved to the next sprint at the end of this sprint.

☒ ABC-2	ADSL	ADAM DEVELOPMENT	VALIDATED	25 OCT	H
☒ ABC-3	ADAE	ADAM DEVELOPMENT	READY FOR QC	01 NOV	N
☒ ABC-4	ADLB	ADAM DEVELOPMENT	IN PROGRESS	20 NOV	A

+ Create issue

☐ **Sprint 2** 11 Nov – 2 Dec (7 issues)

0 0 0 Start sprint

To continue ADaM development and initiate TLF development.

☒ ABC-5	ADCM	ADAM DEVELOPMENT	TO DO	02 DEC	N
☒ ABC-8	TDEM01	TLF DEVELOPMENT	TO DO	02 DEC	
☒ ABC-9	TDEM02	TLF DEVELOPMENT	TO DO	02 DEC	
☒ ABC-10	TAE01	TLF DEVELOPMENT	TO DO	02 DEC	P
☒ ABC-11	TAE02	TLF DEVELOPMENT	TO DO	02 DEC	P
☒ ABC-12	TAE03	TLF DEVELOPMENT	TO DO	02 DEC	



Components of Agile

Planning next sprint by moving tasks from Backlog to Sprint 3

Plan a sprint by dragging the sprint rooter down below some issues, or by dragging issues here.

+ Create issue



0 issues | Estimate: 0

☐ Backlog (12 issues)

0 0 0

Plan on whiteboard [TRY](#)

Create sprint

ABC-14 LDEM01

Edit Summary

ABC-15 LAE01

ABC-16 LAE02

☒ ABC-25 ADVS

☒ ABC-26 TCM01

☒ ABC-27 TCM02

TLF DEVELOPMENT

TO DO



TLF DEVELOPMENT

TO DO



TLF DEVELOPMENT

TO DO



ADAM DEVELOPMENT

TO DO



TLF DEVELOPMENT

TO DO



TLF DEVELOPMENT

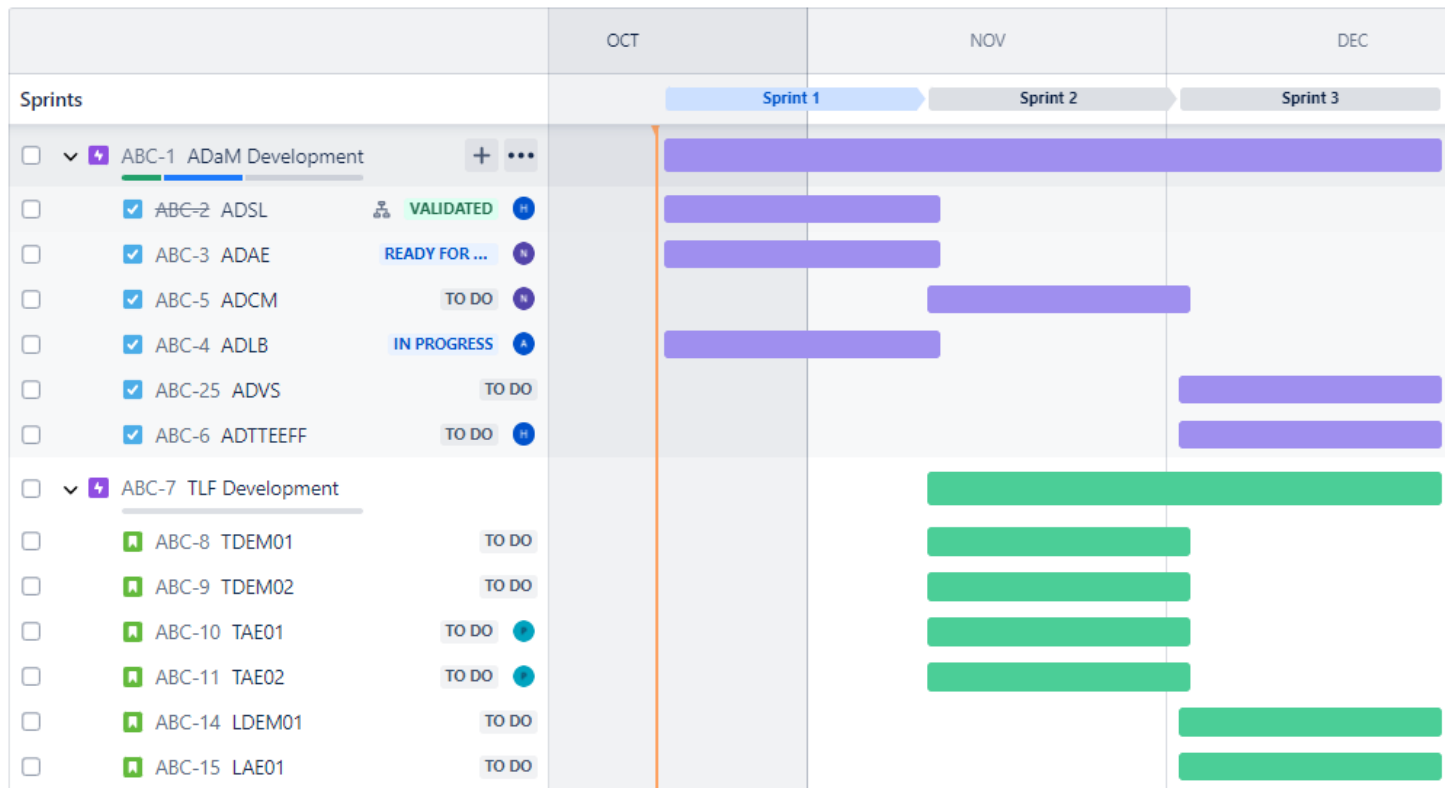
TO DO





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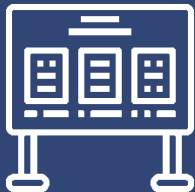
Visualizing
timelines of
different sprints,
epics and tasks





Components of Agile

Boards



Boards are visual tools that track work progress by displaying tasks as they move through stages. They enhance collaboration and transparency in projects.

TO DO	IN PROGRESS	READY FOR QC	VALIDATED
LDEM01 TLF DEVELOPMENT ABC-14 LAE01 TLF DEVELOPMENT ABC-14 ABC-15 LAE02 TLF DEVELOPMENT ABC-16 ADVS ADAM DEVELOPMENT ABC-25 ADTTEFF ADAM DEVELOPMENT	ADLB ADAM DEVELOPMENT 20 NOV ABC-4 ADCM ADAM DEVELOPMENT 02 DEC ABC-5	TAE01 TLF DEVELOPMENT 02 DEC ABC-10 TAE02 TLF DEVELOPMENT 02 DEC ABC-11 TAE03 TLF DEVELOPMENT 02 DEC ABC-12 TAE04 TLF DEVELOPMENT 02 DEC ABC-13	ADSL ADAM DEVELOPMENT 25 OCT ABC-2 ADAE ADAM DEVELOPMENT 01 NOV ABC-3 TDDEM01 TLF DEVELOPMENT 02 DEC ABC-8 TDDEM02 TLF DEVELOPMENT 02 DEC ABC-9

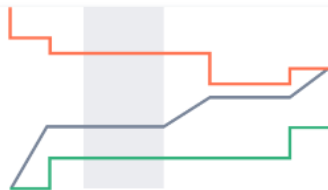


Components of Agile

Reports

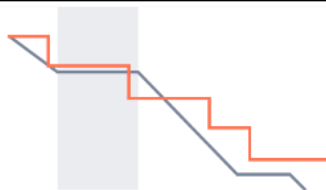


Reports are tools used to provide insights into the progress, performance, and health of a project.



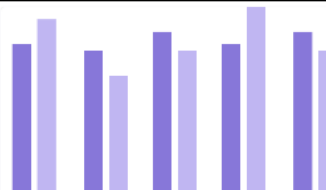
Burnup report

Visualize a sprint's completed work and compare it with its total scope. Use these insights to track progress toward sprint completion.



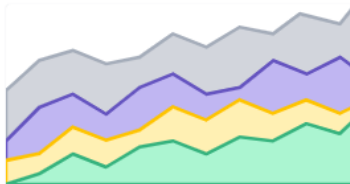
Sprint burndown chart

Track and manage the total work remaining within a sprint. After the sprint, summarize both team and individual performance.



Velocity report

Predict the amount of work your team can commit to in future sprints by seeing and reviewing the amount of value delivered in previous ones.



Cumulative flow diagram

Shows the statuses of your project's issues over time. See which columns accumulate more issues, and identify bottlenecks in your workflow.



Cycle Time Report

Understand how much time it takes to ship issues through the deployment pipeline and how to deal with outliers.



Deployment Frequency Report

Understand your deployment frequency to understand risk and how often you are shipping value to your customers.



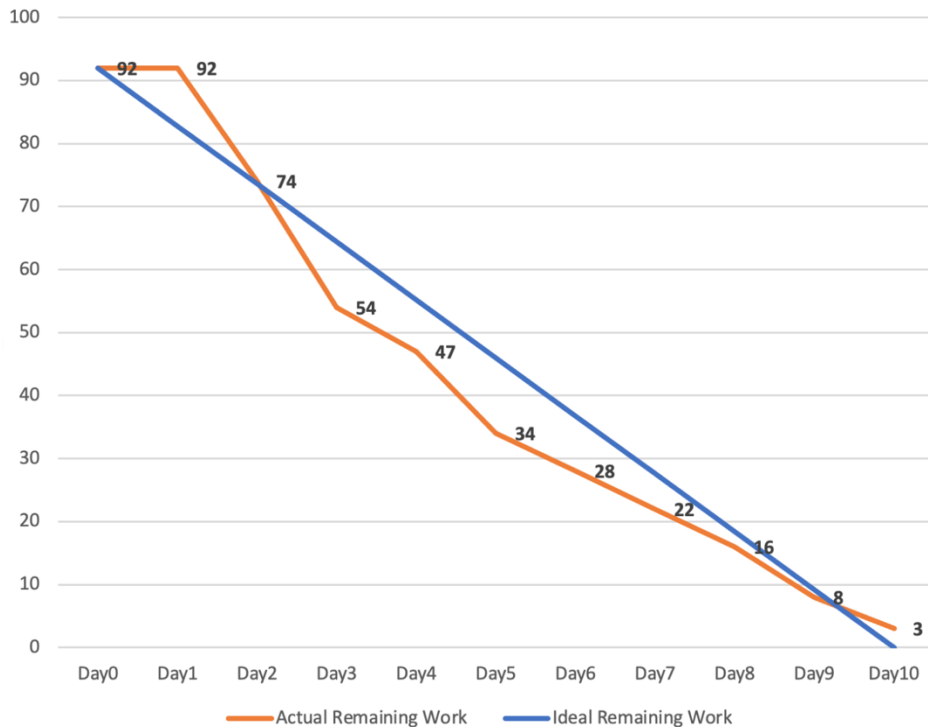
Components of Agile

Reports



Reports are tools used to provide insights into the progress, performance, and health of a project.

Burndown Chart





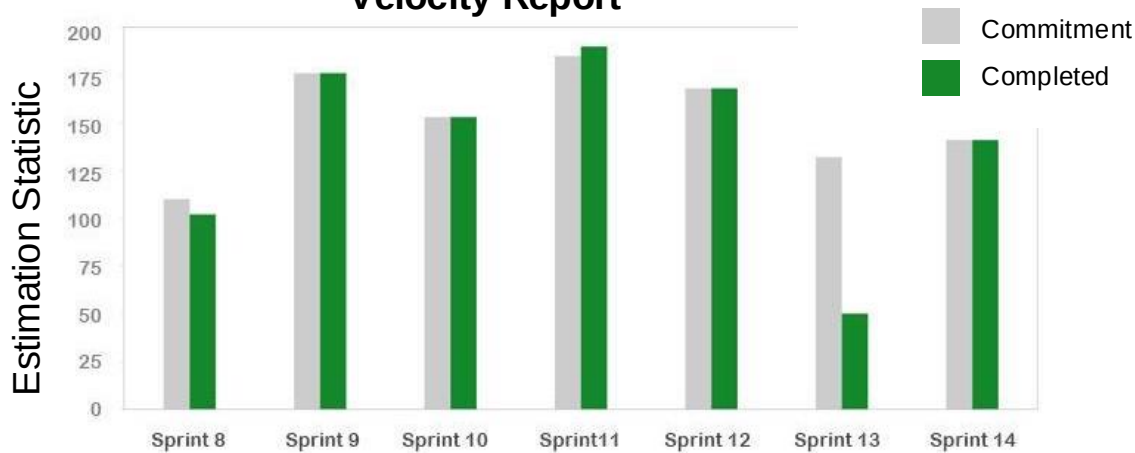
Components of Agile

Reports

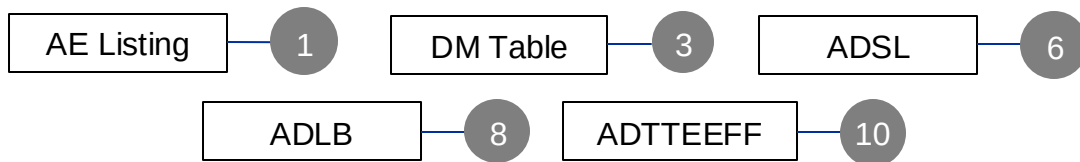


Reports are tools used to provide insights into the progress, performance, and health of a project.

Velocity Report



Estimation Statistic for each task is proportional to the effort required to complete it





Components of Agile

Sprint Retrospective



A retrospective is a meeting held at the end of a sprint to reflect on what went well, what didn't, and how to improve.





Summary

Why Choose Agile?

Flexibility and Adaptability:

Easy to incorporate new requirements and respond to evolving needs

Enhanced Collaboration:

Sense of ownership and engagement among team members and stakeholders.

Increased Transparency:

Visibility into progress and challenges, helping stakeholders stay informed and engaged.



"I stick to what I know."
"Every person has fixed talents."
"Failure is the limit of my abilities."
"I don't like to be challenged."
"My potential is predetermined."
"I can either do it, or I can't."



**FIXED
MINDSET**

"I like to try new things."
"I can learn to do anything I want."
"Failure is an opportunity to grow."
"Challenges help me grow."
"Feedback is constructive."
"I'm inspired by other's success."



**AGILE
MINDSET**

[Modern Leadership Styles — What Does it Mean to Be an Agile Leader - sdi](#)



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Data Science Community**

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Thank you

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References

Concepts and Tools:

- [Google Project Management: Professional Certificate | Coursera](#)
- [Managing work in Jira Cloud | LinkedIn Learning](#)
- [Jira | Issue & Project Tracking Software | Atlassian](#)

Images:

- [Agile Manifesto Values And Principles \(mavink.com\)](#)
- [80+ Agile Terminology You Need to Know About in 2024 \(proofhub.com\)](#)
- [Sprint Retrospective: The Basics – Bordio](#)
- [Agile Project Management Guide in 2024](#)
- [Modern Leadership Styles — What Does It Mean to Be an Agile Leader - sdi](#)